intellibooks

The $0 AI Architecture That Can Scale Big Later

Start free with open-source tools today. Upgrade to production-grade AI later — without rebuilding everything.

★ By Your Name Here

1 User Interface
Where users interact
Streamlit · Gradio · React · Next.js

↓

2 API / Backend
Expose endpoints and business logic
FastAPI · Flask · Node.js

↓

3 AI Orchestration
Prompts, routing, memory, tools, workflows
LangChain · LlamaIndex · CrewAI · LangGraph

↓

4 LLM Layer
Run locally for zero cost
Ollama · LM Studio · Qwen · Mistral · Llama

↓

5 Tool Execution
Python functions, APIs, automation
Python · APIs · Webhooks · Automation

↓

6 Knowledge + RAG
Documents, embeddings, retrieval
PDF · Excel · Docs · Web · Markdown
Chroma · FAISS · pgvector

↓

7 Storage
Data, vectors, metadata, logs
SQLite · PostgreSQL

↓

8 Eval + Observability
Traces, logs, feedback, quality checks
OpenTelemetry · LangSmith · Logs

Tool Execution
Python functions, APIs, automation

Scale Later

Same architecture.
Bigger power. Zero rebuild.

- Local LLMs → OpenAI · Anthropic · Gemini · Azure OpenAI
- SQLite → PostgreSQL · Cloud SQL · Supabase · Neon
- Chroma/ FAISS → Pinecone · Weaviate · Qdrant · pgvector
- Local Deployment → Docker · Kubernetes · Cloud Run · ECS
- Basic Logs → Prometheus · Grafana · Datadog · Sentry

Start free. Scale fearlessly.
Built to grow with you.

What You Can Build

1. Document Chatbot
2. Resume Analyzer
3. Research Paper Assistant
4. Customer Support Bot
5. Code Review Assistant
6. Meeting Notes Generator
7. AI Learning Tutor
8. Team Knowledge Base
9. Email Reply Assistant
10. Data Analyst Assistant
11. Multi-Agent Automation

Zero cost to start. Limitless potential.

Save this post & build something amazing!

Follow for more AI architectures & guides

www.intellibooks.io